

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Claims 1-14 were previously canceled. Claim 15 was previously added in the preliminary amendment filed August 24, 2001. As indicated in the listing of claims, Claim 15 was previously amended in the second preliminary amendment filed January 8, 2002. Claims 16-28, as indicated in the listing of claims, were previously added in the second preliminary amendment filed January 8, 2002. Amendments to claims submitted herein are made either for purposes of clarity, or at the suggestion of the Examiner, and are fully supported by the specification.

Listing of Claims

Claims 1-14 (canceled)

15. (currently amended) A hemocompatible surface comprising:

a material located on or in the hemocompatible surface, wherein the material comprises an artificial compound, a natural organic compound, or an inorganic compound, or a mixture thereof; and,

a constituent of an outer layer of a blood cell, a constituent of an outer layer of a mesothelial cell or a combination thereof.

16. (currently amended) The hemocompatible surface of Claim 15, wherein the hemocompatible surface comprises a surface extracted from ~~of~~ an animal organ, an animal organ part, a vascular system, or a combination thereof.

17. (currently amended) The hemocompatible surface of Claim 15, wherein the ~~material~~ constituent comprises:

an oligosaccharide;

a polysaccharide; ~~or~~

lipid portions of a glycoprotein, lipid portions of a glycolipid, or lipid portions of a proteoglycan; or

combinations thereof;

wherein the constituent is obtained from outer layers of blood cells, outer layers of mesothelial cells, or combinations thereof.

18. (currently amended) The hemocompatible surface of Claim 15, wherein the ~~material~~ constituent comprises ~~heparan~~ heparin sulfate obtained from erythrocyte plasma membranes of animals or humans.

19. (currently amended) The hemocompatible surface of Claim 15, wherein the ~~material~~ constituent comprises an oligosaccharide or a polysaccharide ~~portions~~ portion of a proteoglycan, wherein the proteoglycan is hyaluronic acid, chondroitin sulfate, dermatan sulfate, ~~heparan~~ heparin sulfate, or ~~keratan~~ keratin sulfate, or a mixture thereof.

20. (currently amended) The hemocompatible surface of Claim 15, wherein the ~~material~~ constituent comprises glycophorins, glycosphingolipids, or combinations thereof.

21. (previously added) The hemocompatible surface of Claim 15, wherein the hemocompatible surface is non-thrombogenic, non-immunogenic or a combination thereof.

22. (previously added) The hemocompatible surface of Claim 15, wherein the material comprises a high-molecular weight organic compound, a metal, a metal oxide, an alloy, a ceramic, a glass, a mineral, or a mixture thereof.

23. (previously added) An article, device, or material comprising the hemocompatible surface of Claim 15.

24. (currently amended) A process for making a hemocompatible surface, comprising:

isolating a cell constituent from an outer layer of a blood ~~eells~~ cell or a mesothelial ~~eells~~ cell, wherein the cell constituent is a glycoprotein, an oligosaccharide, a polysaccharide, a lipid portion of a glycoprotein, a lipid portion of a glycolipid, a lipid portion of a proteoglycan, or a combination thereof; and,

applying or incorporating the cell constituent, or combination thereof, on or in the surface of an article, a device, or a material to be contacted with bodily fluid or tissue by physical or chemical bonding means.

25. (currently amended) The process of Claim 24, wherein the cell constituents constituent of the outer layer of the blood cells cell ~~are~~ is isolated from whole blood or from cell fractions thereof.

26. (currently amended) The process of Claim 24, wherein the cell constituents constituent from the outer layer of the blood cell ~~are~~ is isolated from the blood cell, wherein the blood cell is an erythrocytes erythrocyte, leucocytes leucocyte, thrombocytes thrombocyte, or mixtures thereof.

27. (currently amended) The process of Claim 24, wherein the cell constituents of the outer layer of the mesothelial cells ~~are~~ cell is isolated from mesothelial cells isolated from omentum, peritoneum, or organs.

28. (currently amended) The process of Claim 24, wherein applying or incorporating the cell constituents constituent on or in the surface comprises chemical immobilization, photoimmobilization, adhesion, drying, or a combination thereof.

29. (new) A hemocompatible surface comprising:

a material located on or in the hemocompatible surface, wherein the material comprises an artificial compound, a natural organic compound, or an inorganic compound, or a mixture thereof; and,

a constituent of an outer layer of a blood cell, a constituent of an outer layer of a mesothelial cell, or a combination thereof; wherein the constituent comprises glycoporphins, glycosphingolipids, or combinations thereof.